Docket No.: 1875.1020 (Formerly 1466.1088)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Naoki ITOKAWA, et al.

Serial No. 10/807,535 Group Art Unit: 2629

Confirmation No. 3781

Filed: March 24, 2004 Examiner: LEWIS, DAVID LEE

For: METHOD FOR DRIVING PLASMA DISPLAY PANEL

PETITION UNDER 37 CFR 3.81(b)

AND SECOND REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants are filing a Petition and Second Request for Certification of Correction for inadvertent errors made in the subject application after paying the issue fee and after issuance of a patent. Applicants have found an inadvertent error on the Issue Fee Transmittal filed in the USPTO on February 17, 2009. As a result, the error appears on the face of the Letters Patent and, unfortunately, was overlooked until now (copy enclosed).

On February 17, 2009 when Applicants prepared and filed the Issue Fee Transmittal, the Transmittal inadvertently listed <u>HITACHI, LTD.</u> as the <u>sole</u> Assignee, omitting the <u>second</u> Assignee's name of FUJITSU HITACHI PLASMA DISPLAY LIMITED (copy enclosed).

As evidenced by the enclosed Notice of Recordation recorded on <u>June 21, 2004</u> at <u>Reel 015484</u>/ <u>Frame 0986</u>, <u>FUJITSU LIMITED AND FUJITSU HITACHI PLASMA DISPLAY LIMITED</u> has had <u>joint ownership</u> in the subject application since the initial filing date of <u>March 24, 2004</u>.

Since that time, and as evidenced by the enclosed Notice of Recordation recorded on December 23, 2005 at Reel 017136/ Frame 0874, FUJITSU LIMITED assigned its entire rights to HITACHI, LTD.; and as further evidenced by the enclosed Notice of Recordation recorded October 29, 2008, Reel 021785/ Frame 0276, HITACHI LTD. assigned its entire rights to

Serial No.: 10/807.535

HITACHI PLASMA PATENT LICENSING CO., LTD., which was filed before the subject Patent issued.

Accordingly, Applicants are respectfully requesting that the PETITION be entered and made of record, since Applicants have proven and provided proof that the errors were inadvertent.

It is further requested that this file be forwarded to the Certificates of Correction Branch for issuance of a CERTIFICATE OF CORRECTION to correct and replace the appropriate Assignee's names of record as follows: "HITACHI PLASMA PATENT LICENSING CO., LTD."

AND "FUJITSU HITACHI PLASMA DISPLAY LIMITED".

Applicants respectfully submit the processing fee of \$130 as set forth under 37 CFR 1.117(h) and \$100 to cover the cost of the Certificate is attached.

If there are any additional fees associated with filing of this Petition, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

J. Randall Beckers Registration No. 30,358

1201 New York Ave, N.W., 7th Floor Washington, D.C. 20005

Telephone: (202) 434-1500 Facsimile: (202) 434-1501





(12) United States Patent Itokawa et al.

(10) Patent No.: US 7,570,231 B2

(45) Date of Patent: Aug. 4, 2009

(54) METHOD FOR DRIVING PLASMA DISPLAY PANEL

(75) Inventors: Naoki Itokawa, Kawasaki (JP); Yoshiho Seo, Kawasaki (JP); Yasunobu Hashimoto, Kawasaki (JP); Tetsuya Sakawasaki (JP); Tetsuyaka

Sakamoto, Kawasaki (JP); Tomokatsu Kishi, Kawasaki (JP)

(73) Assignee: Hitachi, Ltd., Tokyo (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 651 days.

(21) Appl. No.: 10/807,535

(22) Filed: Mar. 24, 2004

(65) Prior Publication Data

US 2004/0201553 A1 Oct. 14, 2004

(30) Foreign Application Priority Data

Mar. 28, 2003	(JP)	2003-092215
Feb. 24, 2004	(JP)	2004-048529

(51) Int. Cl. G09G 3/10 (2006.01) G09G 3/28 (2006.01)

345/60–100, 204–214 See application file for complete search history.

(56) References Clted

U.S. PATENT DOCUMENTS

4,349,819	Α	٠	9/1982	Terakawa	 345/63
5,642,018	Α		6/1997	Marcotte	
6.011.355	٨		1/2000	Nagai	

6,100,859	A *	8/2000	Kuriyama et al	345/60
6,175,192	BI	1/2001	Moon	
6,653,993	Bi	11/2003	Nagao et al.	
6,784,857	BI	8/2004	Nakamura	
6,784,858		8/2004	Awamoto	345/60
6,853,358	B2	2/2005	Kunii et al.	
6,900,781	Bi	5/2005	Mori et al.	
6,933,911	B2*	8/2005	Suzuki	345/60
001/0005188	A1	6/2001	Watanabe	
001/0033263	Al	10/2001	Yamada et al.	
002/0008678	AI	1/2002	Rutherford	

(Continued)

FOREIGN PATENT DOCUMENTS

1 065 645 1/2001

(Continued)

OTHER PUBLICATIONS

European Search Report, dated Jul. 19, 2006, for related European Patent Application No. EP 04 25 1815.9-2205.

(Continued)

Primary Examiner-David L. Lewis

(74) Attorney, Agent, or Firm-Staas & Halsey LLP

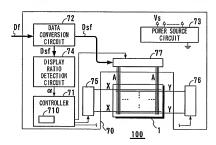
(57) ABSTRACT

2

2

A method for driving a plasma display panel is provided in which wasteful power consumption is reduced and light emission efficiency is improved when the number of cells to be lighted is relatively small. The method includes classifying a display ratio into plural group ranges, electing a suitable display paties waveform for read group range, detecting the display parties of an object to be displayed in a real display, and to the contract of the contract of

11 Claims, 6 Drawing Sheets



PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEB and PUBLICATION FEE (if required). Blocks I through 5 should be completed where appropriate. All further correspondences including the Patent, advance orders and polification of maintenance feet will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (3) specifying a new correspondence address; and/or (5) indicating a separate "FEE ADDRESS" for maintenance feet on officiations.

CURRENT CORRESPONDENCE ADDRESS (Note: Uso Block 1 for any change of address)

11/14/2008

7590 21171

STAAS & HALSEY LLP

SUITE 700 1201 NEW YORK AVENUE, N.W.

WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

1 hereby certify fish is Fe(s) Transmittal is being deposited with the United States Fostal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being finestimile transmitted to the USFTO (571) 273-2885, on the date indicated below.

(Depositor's name) (Sic (Date

CONFIRMATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO APPLICATION NO. FILING DATE 3781 Naokl Itokawa 1466,1088 10/807.535 03/24/2004

TITLE OF INVENTION	RETHOD FOR DRIV	ING PLASMA DISPLA	TANGE			
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0 .	\$1440	\$ 70	02/17/2009
EXAM	AINER	AŘT UNIT	CLASS-SUBCLASS]	. , , ,	
LEWIS, D	AVIDLEE	2629	345-060000			
CFR 1.363). Change of corres Address form PTO/S	dication (or "Fee Address 02 or more recent) attac	inge of Correspondence	or agents OR, alternati	o 3 registered patent attor- vely, le firm (having as a memb agent) and the names of the process or agents. If no name	neys -	HALSEY LLP
PLEASE NOTE: Un recordation as set for (A) NAME OF ASS HITACHI, L	oless an assigner is iden rth in 37 CFR 3.11. Com IGNEE TD .	tified below, no assigned pletion of this form is NO	THE PATENT (print or ty contact will appear on the p of a substitute for filing an (B) RESIDENCE: (CIT' TOKYO', JAPA sprinted on the patent):	eatent. If an assignee is i assignment. Y and STATE OR COUN' AN	IKY)	
4a. The following fee(s Lissue Fee Publication Fee		permitted)	ib, Payment of Fee(s): (Ple		viously paid Issue fee sh tached.	own above)
D . V	natus (from status indicat ms SMALL ENTITY sta and Publication Fee (if re e records of the United S	tue See 37 CFR 1 27	☐ b. Applicant is no lot ed from anyone other than the Office.	nger claiming SMALL En	attorney or agent, or the	R 1.27(g)(2). assignce or other party in
Authorized Signatur Typed or printed on	me AARON C.		tion is required to obtain or	Date Z-1	59,921	by the USPTO to process
an application. Confid	entiality is governed by	5 U.S.C. 122 and 37 CF	tion is required to obtain or R 1.14. This collection is c	stimated to take 12 minut	es to complete, including	gathering, preparing, an

annihiling like compiled application form to the USFTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to continue the form and/or suggestions for reducing this burdue, absolute to sent to the Carle Information Officer. U.S. Patest and Trebender Officer, supremented of Commence, P.O. Box 1450, Alexandria, Virgina 22313-1450. DO NOT SEND PEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioned for Planta, P.O. Box 1450, Alexandria, Virgina 22313-1450. DO NOT SEND PEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioned for Planta, P.O. Box 1450, Alexandria, Virgina 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



Page 1 of 1

10/807.535 METHOD FOR DRIVING PLASMA DISPLAY PANEL 11-24-2009::17:49:39

Pages: 4

Pages: 3

Pages: 3

Patent Assignment Abstract of Title

Total Assignments: 3 Application #: 10807535

Filing Dt: 03/24/2004 PCT #: NONE

Patent #: 7570231 Publication #: US20040201S53 Issue Dt: 08/04/2009 Pub Dt: 10/14/2004

Inventors: Naoki Itokawa, Yoshiho Seo, Yasunobu Hashimoto, Tetsuya Sakamoto, Tomokatsu Kishi

Title: METHOD FOR DRIVING PLASMA DISPLAY PANEL

Assignment: 1

Reel/Frame: 015484 / 0986 Received: 06/24/2004 Recorded: 06/21/2004

Mailed: 12/27/2004

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS). Assignors: ITOKAWA, NAOKI

SEO, YOSHIHO

Exec Dt: 03/13/2004 Ever Dt: 03/15/2004 Exec Dt: 03/15/2004 Exec Dt: 03/19/2004 Exec Dt: 03/29/2004

Exec Dt: 10/18/2009

Mailed: 11/05/2008

Exec Dt: 09/01/2006

HASHIMDTO, YASUNOBU SAKAMOTO, TETSUYA KISHI, TOMOKATSU

FUJITSU LIMITEO 1-1, KAMIKODANAKA, 4-CHOME NAKAHARA-KU

KAWASAKI-SHI, KANAGAWA 211-8588, JAPAN FUJITSU HITACHI PLASMA OISPLAY LIMITEO

2-1, SAKAOO 3-CHOME TAKATSU-KU VAWACAVI, CUI

KANAGAWA 213-0012, JAPAN Correspondent: STAAS & HALSEY LLP H.J. STAAS

1201 NEW YORK AVE., N.W. SUITE 700 WASHINGTON, O.C. 20005

Assignment: 2

Reel/Frame: 017136 / 0874 Pecalvert: 12/23/2005 Recorded: 12/23/2005

Malled: 02/09/2006 Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE OCCUMENT FOR OFFAILS).

Assignor: FWITSU LIMITEO Assignee: HITACHI, LTO.

6-6. MARUNOUCHI 1-CHOME, CHIYODA-KU

TOKYO, JAPAN Correspondent: STAAS & HALSEY LLP

ATTENTION: H. J. STAAS 1201 NEW YORK AVE., N.W., SUITE 700 WASHINGTON, O.C. 20005

Assignment: 3

Reel/Frame: 021785 / 0276 Received: 11/04/2008 Recorded: 10/29/2008 Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE OCCUMENT FOR OFFAILS).

Assignor: HITACHI LTO.

Assignee: HITACHI PLASMA PATENT LICENSING CO., LTD.

2-1, OTEMACHI 2-CHOME CHIYO DA-KU, TOKYO, JAPAN

Correspondent: STAAS & HALSEY LLP ATTN: H 1 STAAS

1201 NEW YORK AVENUE, N.W., 7TH FLOOR

WASHINGTON, O.C. 20005

Search Requite on of: 11/24/2009 17:40:25 PM

Assignment information on the assignment database reflects assignment documents that have been actually recorded. If the assignment for a patent was not recorded, the name of the assignee on the patent application publication or patent may be If you have any comments or questions concerning the data displayed, contact OPR / Assignments at 571-272-3350

Close Window

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 23, 2004

PTAS



STAAS & HALSEY LLP H.J. STAAS 1201 NEW YORK AVE., N.W. SUITE 700 WASHINGTON, D.C. 20005

> UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/21/2004

REEL/FRAME: 015484/0986 NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ITOKAWA, NAOKI

DOC DATE: 03/13/2004

ASSIGNOR:

SEO, YOSHIHO

DOC DATE: 03/15/2004

ASSTGNOR:

HASHIMOTO, YASUNOBU

DOC DATE: 03/15/2004

ASSIGNOR:

SAKAMOTO, TETSUYA

DOC DATE: 03/19/2004

ASSIGNOR:

KISHI, TOMOKATSU

DOC DATE: 03/29/2004

015484/0986 PAGE 2

ASSIGNEE:

FUJITSU LIMITED

1-1, KAMIKODANAKA, 4-CHOME

NAKAHARA-KU KAWASAKI-SHI, KANAGAWA 211-8588

JAPAN

ASSIGNEE:

FUJITSU HITACHI PLASMA DISPLAY

LIMITED

2-1, SAKADO 3-CHOME TAKATSU-KU KAWASAKI-SHI

KANAGAWA 213-0012, JAPAN
SERIAL NUMBER: 10807535

FILING DATE: 03/24/2004

PATENT NUMBER: ISSUE DATE: TITLE: METHOD FOR DRIVING PLASMA DISPLAY PANEL

MAURICE CARTER, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

	FORM PTD-1599S O6 - 24 - 2004 U.S. DEPARTMENT OF COMMENT To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof
1	Name of conveying party(les): Naoki ITOKAWA Yoshino SEO Yasunobu HASHIMOTO Tetsuya SAKAMOTO Tomokatsu KISHI
2	Name and Address of receiving party(ies): FUJITSU LIMITED 1-1, Kamikodanaka, 4-chome Nakahara-ku, Kawasaki-shi Kanagawa 211-8588 Japan
	FUJITSU HITACHI PLASMA DISPLAY LIMITED 2-1, Sakado 3-chome Takatsu-ku, Kawasaki-shi, Kanagawa 213-0012 JAPAN
3	Nature of conveyance: X Assignment Merger Security Agreement Change of Name Other: Execution Date(s): March 13, 15, 15, 19, and 29, 2004
4	Application number(s) or patent number(s): This document is being filed together with a new application: (a) The execution date(s) of the application is/are: (b) The title is: OR This document is being filed after filing of the application: (a) Patent Application No(s). 10/807,535, filed March 24, 2004; or (b) Patent No(s), issued.
5.	Name and address of party to whom correspondence concerning document should be mailed: STAAS & HALSEY LLP Our Docket: 1466.1088 Attention: H. J. Staas 1201 New York Ave., N.W., Suite 700 Washington, D.C. 20005
6.	Total number of applications and patents involved:1
7.	Total fee (37 CFR 3.41)(\$ 40.00 per Patent or Application in Assignment) ☐ Enclosed ☐ Authorized to be charged to deposit account.

06/23/2004 HGETACHE 00000129 10807535 D1 FC:8021 40.00 OP

8.	Deposit Account No.: 19-3935 (Account) (Attach duplicate copy of this pag	(Any underpayment is authorized to be char ge if paying by deposit account)	ged to this Deposit
	Staas, Reg. No. 22,010 of Person Signing	Signature Total number of pages inc	<u>June 21, 2004</u> Date cluding cover sheet: 4

U.S. ASSIGNMENT

SAH 1/00

inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))	(*),	a rando consideration paid to the undersigned
FUJITSU LIMITED		
1-1, Kamikodanaka 4-chome, Nak	cahara-ku, Kawasaki-shi,	Kanagawa 211-8588 Japan
FUJITSU HITACHI PLASMA D	ISPLAY LIMITED	
2-1, Sakado 3-chome, Takatsu-ku	, Kawasaki-shi, Kanagav	va 213-0012 Japan
(hereinafter, "ASSIGNEE"), the receipt of which is h ASSIGNEE the entire and exclusive right, title and in (Title of Invention) METHOD FOR DRIVING PLASS	sterest to the invention entitled	ned ASSIGNOR hereby sells, assigns and transfers to
relating to International Patent Application PCT/JP_executed on even date herewith or, if not so executed,	and/or for which was:	application for Letters Patent of the United States was
(a) executed on	(Insert dote of execu	tion of opplication, if not concurrent)
(b) filed on	Any registered attorn	ney of STAAS & HALSEY LLP, Suite 700, 1201 New
Serial No/;	York Avenue, N.W.,	Vashington, D.C. 20005 (202/434-1500) is hereby n (b) the specified data, when known.
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application based including any extensions thereof (collectively, hereins	thereon, for the full term or terms f	or which the said Letters Patent(s) may be granted and
The ASSIGNOR agree(s), when requested by said which the ASSIGNEE may deem necessary, desirable including, in the preparation and prosecution of said a reexamination, or public use proceeding, and in any lift acts to include but not be limited to executing all pape sworn testimony, and obtaining and producing eviden	or expedient, for securing, maints oplication(s) and the issuance of sa igation or other legal proceeding w irs, including separate assignments	id Letters Patent(s), in any interference, reissue,
IN WITNESS WHEREOF, the undersigned invent (Typed Name & Signature of Impentor(s))	or(s) has (have) affixed his/her/the	ir signature(s). (Typed Nome & Signature of Witness(es))
1) Nacki Stokawa	mar. 13, 2004	Ibuyo KANAGAWA
Naoki ITOKAWA	04 /F 305/	Ikuyo KANAGAWA
2) Yoshiho Seo Yoshiho SEO	Mar. 10, 2014	Ikuyo Kanagawa Ikuyo KANAGAWA
3) Yasunolu, Hushimoto Yasunobu HASHIMOTO	Mar. 15, 2004	Shuyo KANAGAWA [Kuyo KANAGAWA] [Kuyo KANAGAWA]
4) - Istanya Sukamoto Tetsuya SAKAMOTO	mar. 19, 2004	Thuyo Kanagawa
reisuya ərikAMOTO		Ikuvo KANAGAWA

5) Tomohatsu Kishi Tomokatsu KISHI	Mar 19 2004 Thuyo Kanagawa Buyo KANAGAWA
6)	
7)	
8)	· ·
9)	
10)	
11)	

PAGE 002/006



6023-1093

1201 NEW YORK AVE., N.W., SUITE 700

UNITED STATES PATENT AND TRADEMARK OFF UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 09, 2006 STAAS & HALSEY LLP

ATTENTION: H. J. STAAS

WASHINGTON, D.C. 20005

PTAS

700233073A

7002330734

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/23/2005

REEL/FRAME: 017136/0874 NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FUJITSU LIMITED

DOC DATE: 10/18/2005

ASSIGNEE:

HITACHI, LTD.

6-6, MARUNOUCHI 1-CHOME, CHIYODA-KU

TOKYO, JAPAN

SERIAL NUMBER: 09760883

PATENT NUMBER:

FILING DATE: 01/17/2001

ISSUE DATE:

TITLE: DISPLAY APPARATUS WITH REDUCED NOISE EMISSION AND DRIVING METHOD

FOR THE DISPLAY APPARATUS

017136/0874 PAGE 2

SERIAL NUMBER: 10102017 FILING DATE: 03/21/2002

PATENT NUMBER: ISSUE DATE:

TITLE: PLASMA DISPLAY APPARATUS

SERIAL NUMBER: 10627727 FILING DATE: 07/28/2003

ISSUE DATE:

TITLE: GAS DISCHARGE PANEL SUBSTRATE ASSEMBLY, PRODUCTION METHOD THEREFOR

AND AC TYPE GAS DISCHARGE PANEL

SERIAL NUMBER: 10807535 FILING DATE: 03/24/2004

ISSUE DATE: TITLE: METHOD FOR DRIVING PLASMA DISPLAY PANEL

SERIAL NUMBER: 11071346
PATENT NUMBER:
TITLE: PLASMA DISPLAY APPARATUS FILING DATE: 03/04/2005

ISSUE DATE:

SERIAL NUMBER: 09427936 FILING DATE: 10/27/1999 ISSUE DATE: 12/17/2002

TITLE: HALFTONE DISPLAY METHOD AND DISPLAY APPARATUS FOR REDUCING HALFTONE

DISTURBANCES OCCURRING IN MOVING IMAGE PORTIONS

 SERIAL
 NUMBER:
 09608150
 FILING DATE:
 06/30/2000

 PATENT NUMBER:
 6496166
 ISSUE DATE:
 12/17/2002

 TITLE:
 DISPLAY APPARATUS
 12/17/2002
 FILING DATE: 06/30/2000

SERIAL NUMBER: 09970706 FILING DATE: 10/05/2001 PATENT NUMBER: 6538382 TSSUE DATE: 03/25/2003 ISSUE DATE: 03/25/2003

TITLE: PLASMA DISPLAY APPARATUS HAVING REINFORCED ELECTRONIC CIRCUIT MODULE

SERIAL NUMBER: 10680136 FILING DATE: 10/08/2003
PATENT NUMBER: 6855026 ISSUE DATE: 02/15/2003

ISSUE DATE: 02/15/2005

TITLE: METHOD FOR FORMING PARTITIONS OF PLASMA DISPLAY PANEL BY USING SANDBLASTING PROCESS

SERIAL NUMBER: 10320550 PATENT NUMBER: 6781564 FILING DATE: 12/17/2002 ISSUE DATE: 08/24/2004

TITLE: DISPLAY APPARATUS

SERIAL NUMBER: 08693598 FILING DATE: 08/05/1996
PATENT NUMBER: 5907316 FILING DATE: 08/05/1996 ISSUE DATE: 05/25/1999 TITLE: METHOD OF AND APPARATUS FOR DISPLAYING HALFTONE IMAGES

SERIAL NUMBER: 08883233 FILING DATE: 06/26/1997
PATENT NUMBER: 6529204 TSSITE DATE: 03/04/2003 ISSUE DATE: 03/04/2003

TITLE: METHOD OF AND APPARATUS FOR DISPLAYING HALFTONE IMAGES

JOANN STEWART, EXAMINER

RightFax 2/9/06 12:11 PAGE 004/006 Fax Server

PUBLIC RECORDS DIVISION

htFax	2/9/^6 12:11 PAGE 005/006 Fax Server
6200	TOTAL DEPARTMENT OF COMMENCE OF SOME A HOURT LIP.
To	the Director of the U.S. Patent and Trademark Office: Please record the attached document.
1.	Name of conveying party(ies);
	FUJITSU LIMITED
2.	Name and Address of receiving party(les):
	HITACHI, LTD. 6-6, Marunouchi 1-chome, Chiyoda-ku Tokyo, Jepan
3.	Nature of conveyance: X
4.	Application number(s) or patent number(s): This document is being filed together with a new application.
	OR This document is being filed after filing of the application: (a) Patent Application No(s). See Attached List (b) Patent No(s). See Attached List
6.	Name and address of party to whom correspondence concerning document should be mailed: STAAS & HALSEY LLP Our Docket: <u>4881.1001</u> Attention: <u>H. J. Staes</u> 1201 New York Ave., N.W., Suite 700 Washington, D.C. 20005
6.	Total number of applications and patents involved: _12
7.	Total fee (37 CFR 3.41)
8.	Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)
(Attach	duplicate copy of this page if paying by deposit account)
H. J. S	taas, Reg. No. 22,010 of Person Signing Signature Signature
	Total number of pages including cover sheet: 3

Annex

Country	Application No.	Patent No.
US	09/427936	6496194
US	09/608150	6496166
US	09/760883	V150100
US	09/970706	6538382
US	10/102017	000002
US	10/627727	
US	10/680136	6855026
US	10/807535	-
_US	10/866302	6781564
Us	11/071346	1007
US	693598	5907316
US	883233	6529204

Facsimile Transmission

This company uses RightFAX® fax server software from RightFAX, Inc.

From:

Name:

USPTO ASSIGNMENT DIVISION

Fax Number:

Voice Phone: 703-308-9723

To:

Name: Company:

STAAS & HALSEY LLP ATTENTION: H. J. STAAS

Fax Number: 12024341501

Voice Phone:

Fax Notes:

Pg# Description

Cover Page

2 963.TXT

5 Document 1, Batch 577498

PTAS FAX PROCESSING





UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 06, 2008

PTAS

STAAS & HALSEY LLP ATTN: H.J. STAAS

1201 NEW YORK AVENUE, N.W., 7TH FLOOR

WASHINGTON, D.C. 20005

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 10/29/2008

REEL/FRAME: 021785/0276 NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: 1920.0002

ASSIGNOR:

HITACHI LTD.

DOC DATE: 09/01/2006

ASSIGNEE:

HITACHI PLASMA PATENT LICENSING CO., LTD.

2-1, OTEMACHI 2-CHOME

CHIYODA-KU, TOKYO, JAPAN

023.1093 (TAAUS Level TO 1872.1005) SERIAL NUMBER: 09760883

H TS ISSUE DATE: 03/20/2007 PATENT NUMBER: 7193596

TITLE: DISPLAY APPARATUS WITH REDUCED NOISE EMISSION AND DRIVING METHOD

FOR THE DISPLAY APPARATUS

1872, 1006 SERIAL NUMBER: 10102017

PATENT NUMBER: 7164394

TITLE: PLASMA DISPLAY APPARATUS

FILING DATE: 03/21/2002 ISSUE DATE: 01/16/200

SERIAL NUMBER: 10627727 1876 1007

FILING DATE: 07/28/2003 ISSUE DATE: 05/13/2008 PATENT NUMBER: 7372206

TITLE: GAS DISCHARGE PANEL SUBSTRATE ASSEMBLY HAVING PROTECTIVE LAYER IN CONTACT WITH DISCHARGE SPACE, AND AC TYPE GAS DISCHARGE PANEL

FILING DATE: 06/14/2004

ISSUE DATE: 02/21/2006

HAVING THE ASSEMBLY

ACW SERIAL NUMBER: 10807535 /875./020 FILING DATE: 03/24/2004

PATENT NUMBER: TSSUE DATE:

TITLE: METHOD FOR DRIVING PLASM DISPLAY PANEL

SERIAL NUMBER: 10866302

PATENT NUMBER: 7002535 TITLE: DISPLAY APPARATUS

SERIAL NUMBER: 11071346 | 872 / 1008 FILING DATE: 03/04/2005 PATENT NUMBER: 11071346 | 872 / 1008 FILING DATE: 03/04/2005 FILING DATE: 03/04/2005 FILING DATE: 03/04/2005 TITLE: PLASMA DISPLAY APPARATUS

SERIAL NUMBER: 08693598 (723,/072 A FILING DATE: 08/05/1996 PATENT NUMBER: 5907316 TITLE: METHOD OF AND APPARATUS FOR DISPLAYING HALFTONE IMAGES

FILING DATE: 06/30/2000

PATENT NUMBER: 6496166

SERIAL NUMBER: 09427936 073 LKS
PATENT NUMBER: 6496194
TITLE: HAIVER FILING DATE: 10/27/1999

TITLE: HALFTONE DISPLAY METHOD AND DISPLAY APPARATUS FOR REDUCING HALFTONE DISTURBANCES OCCURRING IN MOVING IMAGE PORTIONS

023.1075 SERIAL NUMBER: 08883233 FILING DATE: 06/26/1997 PATENT NUMBER: 6529204 ISSUE DATE: 03/04/2003 TITLE: METHOD OF AND APPARATUS FOR DISPLAYING HALFTONE IMAGES

SERIAL NUMBER: 10320550 FILING DATE: 12/17/2002 PATENT NUMBER: 6781564 ISSUE DATE: 08/24/2004

TITLE: DISPLAY APPARATUS

1466,10.78 SERIAL NUMBER: 10680136 FILING DATE: 10/08/2003 PATENT NUMBER: 6855026 ISSUE DATE: 02/15/2005

TITLE: METHOD FOR FORMING PARTITIONS OF PLASMA DISPLAY PANEL BY USING

SANDBLASTING PROCESS

ALLYSON PURNELL, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

11-04-2008 FORM PTO-1595 RECORDATION TIMENT OF COMMERCE PATER n2005 Stops & Helsey LLP 103533273 To the Director of the U.S. Patent and Trademark 1.Name of conveying party(ies): HITACHI LTD. 6-6. Marunouchi 1-chome Chivoda-ku, Tokvo Japan 2. Name and Address of receiving party(ies): HITACHI PLASMA PATENT LICENSING CO., LTD. 2-1. Otemachi 2-chome Chiyoda-ku, Tokyo Japan 3. Nature of conveyance: <u>x</u> Assignment Merger Security Agreement Change of Name Other: Execution Date(s): September 1, 2006 4.Application number(s) or patent number(s): This document is being filed together with a new application. OR This document is being filed after filing of the application: (a) Patent Application No(s). See Attached List (Annex) (b) Patent No(s). See Attached List (Annex) 5. Name and address of party to whom correspondence concerning document should be mailed: STAAS & HALSEY LLP Our Docket: 1920.0002 Attention: H. J. Staas 1201 New York Ave., N.W., 7th Floor Washington, D.C. 20005 6. Total number of applications and patents involved: 12 7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment) Enclosed Authorized to be charged to deposit account. 8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account) (Attach duplicate copy of this page if paying by deposit account) H. J. Staas . Reg. No. 22,010 x. 29, 2008 Name of Person Signing Total number of pages including cover sheet: 9

> 11/83/2008 DBYRNE 00000026 193935 09/60883 01 FC:8021 480.00 DA

©2005

Annex

Application No.	Patent No.	
09/760883		
10/102017	·	
10/627727		
10/807535		
10/866302	·	
11/071346		
693598	5907316	
09/608150	6496166	
09/427936	6496194	
883233	6529204	
10/866302	6781564	
10/680136	6855026	